Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20040115176"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON .	2006/03/24 11:21
L2	2	"5223420".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:20
L3	2	"5989244".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:20
L4	2	"20010044654"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 11:23
L5	2	"20030072741"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:19
L6	2585	(tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:15
L7	43	L6 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:10
L8	19	L7 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:45
L9	1	L8 and (((vascular adj smooth adj muscle adj cell) or VSMC) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:18

L10	1	L8 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:38
L11	3526	(tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or ((artificial or prosthetic) adj (vessel or vein or capillary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:49
L12	74	L11 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:51
L13	30	L12 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:34
L14	1	L13 and (((vascular adj smooth adj muscle adj cell) or VSMC) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:17
L15	60	L6 and ((Fibrinogen and thrombin) or (fibrin adj gel) or fibrin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:17
L16	30	L15 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:18
L17	5	L16 and (((vascular adj smooth adj muscle adj cell) or VSMC) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:29
L18	1	L17 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:30
L19	2	L17 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:08

L20	22	L16 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:37
L21	18	L20 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:37
L22	1	L21 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:30
L23	644	L11 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular or (tubular adj mold) or (tube adj mold) or (cylindrical adj mold) or (silastic adj tube))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L24	278	L6 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular or (tubular adj mold) or (tube adj mold) or (cylindrical adj mold) or (silastic adj tube))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L25	33	L23 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L26	19	L24 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:36
L27	23	L25 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:46
L28	14	L26 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:37

L29	19	L27 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L30	13	L28 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:41
L31	1	L29 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:49
L32	0	L30 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:39
L33	1	L29 and (pulse or (rhythmic adj pulse) or (magnetic adj pulse) or (electrical adj pulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:40
L34	2	L25 and (pulse or (rhythmic adj pulse) or (magnetic adj pulse) or (electrical adj pulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:40
L35	2	L26 and (pulse or (rhythmic adj pulse) or (magnetic adj pulse) or (electrical adj pulse))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:40
L36	1	L7 and (((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:43
L37	7	L6 and (((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:49
L38	278	L6 and ((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:45

r			<u> </u>			
L39	47	L38 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) or fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:26
L40	35	L39 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:50
L41	13	L39 and @pd<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 14:46
L42	21722	(((tubular adj shape) or (cylindrical adj mandrel) or mandrel or (central adj mandrel) or (inner adj mandrel) or tubular) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:00
L43	27	L42 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel) or ((artificial or prosthetic) adj (vessel or vein or capillary)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09
L44	12	L43 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:02
L45	5	L44 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:01
L46	13811	(((tubular adj shape) or (cylindrical adj mandrel) or tubular or (silastic adj tube)) with mold)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:10
L47	14	L46 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09

L48	4	L46 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:12
L49	2	L48 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L50	253	gazit.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:08
L51	0	L50 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel) or ((artificial or prosthetic) adj (vessel or vein or capillary)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09
L52	0	L50 and((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:09
L53	8879	((Fibrinogen and thrombin) or (fibrin adj gel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:10
L54	1121	L53 and ((tubular adj shape) or (cylindrical adj mandrel) or tubular or (tubular adj mold) or (silastic adj tube) or (tubular adj scaffold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L55	363	L54 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:12
L56	20	L54 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:14

L57	14	L56 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:25
L58	2589	((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:23
L59	260	L58 and ((tubular adj shape) or (cylindrical adj mandrel) or tubular or (tubular adj mold) or (silastic adj tube) or (tubular adj scaffold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:24
L60	50	L59 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) or fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:15
L61	36	L60 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:16
L62	30	L61 and ((collagen adj matrix) or collagen)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:22
L63	1074	(((fibrinogen and thrombin) or fibrin) and cell) with (mixture or composition)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:47
L64	5	L63 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L65	202	L63 and ((tubular adj shape) or (cylindrical adj mandrel) or tubular or (tubular adj mold) or (silastic adj tube) or (tubular adj scaffold))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:24
L66	67	L65 and @ad<"20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:25

L67	50	L66 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) or fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:26
L68	24	L66 and (((vascular adj smooth adj muscle adj cell) or VSMC or (smooth adj muscle adj cell)) and fibroblasts)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:26
L69	1667	(((fibrinogen and thrombin) or fibrin) and cell) with (scaffold or matrix or support)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L70	2635	(((fibrinogen and thrombin) or fibrin) ) with (scaffold or matrix or support)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L71	5	L70 and ((tissue adj engineered adj vascular adj vessel) or (tissue adj engineered adj blood adj vessel) or TEV or (tissue adj engineered adj vessel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:48
L72	5	L68 and ((protease adj inhibitor) or aprotinin or (aminocaproic adj acid) or eACA or (".epsilonaminocaproic" adj acid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/24 15:50

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****** HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog *******
ENTER PASSWORD:
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    Database, Rates, & Command Descriptions
    Help in Choosing Databases for Your Topic
    Customer Services (telephone assistance, training, seminars, etc.)
    Product Descriptions

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\$0.00 Estimated cost FileHomeBase

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Processing
Processed 20 of 29 files ...
Completed processing all files
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matrix or support))
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matrix or support))
Processing
Processed 10 of 29 files ...
Processing
Processed 20 of 29 files ...
Completed processing all files
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          181017 THROMBIN
117005 FIBRIN
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      S2
                4 S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL
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>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
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Processing
Processed 20 of 29 files ...
Completed processing all files
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600193 TUBE
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? s s4 and ((((fibrinogen and thrombin) or fibrin) ) (w) (gel or scaffold or
matrix or support))
Processing
              28 S4
          169109 FIBRINOGEN
          181017 THROMBIN
          117005 FIBRIN
         1365813 GEL
           50351 SCAFFOLD
         1286896 MATRIX
         7051906 SUPPORT
            3125 ((FIBRINOGEN AND THROMBIN) OR FIBRIN) (W) (((GEL OR
                  SCAFFOLD) OR MATRIX) OR SUPPORT)
      S5
               2 S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL
                  OR SCAFFOLD OR MATRIX OR SUPPORT))
? ds
Set
        Items
                Description
                ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE
        14769
S1
              (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) E-
             NGINEERED (W) VESSEL))
                S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
S2
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S3
                RD (unique items)
                S1 AND ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
S4
           28
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
S5
               S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -.
             OR SCAFFOLD OR MATRIX OR SUPPORT))
? t s3/free/all
3/8/1
           (Item 1 from file: 5)
            BIOSIS NO.: 200510290896
0015596396
Fibrin-based tissue-engineered blood vessels: Differential effects of
 biomaterial and culture parameters on mechanical strength and vascular
  reactivity
2005
           (Item 1 from file: 35)
01984618 ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for
implantation
  Year:
          2004
           (Item 1 from file: 135)
DIALOG(R) File 135: (c) 2006 NewsRx. All rts. reserv.
                (USE FORMAT 7 OR 9 FOR FULLTEXT)
Tissue-engineered blood vessels have potential for use in heart bypass
```

surgery

WORD COUNT: 568 December 17, 2004 (20041217) University at Buffalo; Angiology; Cardiology; All News; DESCRIPTORS: Professional News; Angiogenesis SUBJECT HEADING: Coronary Artery Bypass 3/8/4 (Item 1 from file: 357) 0342649 DBR Accession No.: 2004-14941 Producing tissue-engineered vascular vessels useful as in vivo vascular graft, involves molding vessel-forming fibrin mixture having gel , and incubating fibrinogen, thrombin and cells into fibrin gel in medium for growth of cells - vascular vessel preparation for use in tissue engineering 2004 ? t s5/free/all 5/8/1 (Item 1 from file: 35) 01984618 ORDER NO: AADAA-I3113533 Development of a fibrin-based tissue-engineered vasculature construct for implantation Year: 2004 (Item 1 from file: 357) 0342649 DBR Accession No.: 2004-14941 Producing tissue-engineered vascular vessels useful as in vivo vascular graft, involves molding vessel-forming fibrin mixture having fibrinogen, thrombin and cells into fibrin gel , and incubating gel in medium for growth of cells - vascular vessel preparation for use in tissue engineering 2004 ? s (fibrin (w) based) (s) ((tissue (w) engineered (w) vascular (w) vessel) or (tissue (w) engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered (w) vessel)) Processing Processed 10 of 29 files ... Completed processing all files 117005 FIBRIN 6828778 BASED 4875211 TISSUE 144169 ENGINEERED 3909101 VASCULAR 650295 VESSEL 2 TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL 4875211 TISSUE 144169 ENGINEERED 9013245 BLOOD 650295 VESSEL 112 TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL 14634 TEV 4875211 TISSUE 144169 ENGINEERED 650295 VESSEL 27 TISSUE (W) ENGINEERED (W) VESSEL S 6 (FIBRIN (W) BASED) (S) ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) ENGINEERED (W) VESSEL)) ? s (fibrin (w) based) and((tissue (w) engineered (w) vascular (w) vessel) or (tissue (w) engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered

(w) vessel))

```
Processing
Processed 10 of 29 files ...
Completed processing all files
         117005 FIBRIN
         6828778 BASED
             337 FIBRIN(W)BASED
         4875211 TISSUE
         144169 ENGINEERED
         3909101 VASCULAR
         650295 VESSEL
               2 TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL
         4875211 TISSUE
         144169 ENGINEERED
         9013245 BLOOD
          650295 VESSEL
             112 TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL
           14634 TEV
         4875211 TISSUE
         144169 ENGINEERED
          650295 VESSEL
              27 TISSUE (W) ENGINEERED (W) VESSEL
      S7
                 (FIBRIN (W) BASED) AND ((TISSUE (W) ENGINEERED (W)
                  VASCULAR (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD
                  (W) VESSEL) OR TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
? s s7 and ((tubular (w) shape) or (cylindrical (w) mandrel) or tubular or
(tubular (w) mold) or (silastic (w) tube) or (tubular (w) scaffold))
Processing
Processed 20 of 29 files ...
Completed processing all files
               3 S7
         249282 TUBULAR
         816951 SHAPE
                 TUBULAR (W) SHAPE
             855
         159832
                 CYLINDRICAL
            2348 MANDREL
                 CYLINDRICAL (W) MANDREL
              41
         249282
                 TUBULAR
          249282
                 TUBULAR
         102352
                 MOLD
              29
                 TUBULAR (W) MOLD
           22617
                 SILASTIC
          600193
                 TUBE
            1117
                 SILASTIC (W) TUBE
          249282
                 TUBULAR
           50351
                 SCAFFOLD
             126
                  TUBULAR (W) SCAFFOLD
      S8
                 S7 AND ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL)
                  OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE)
                  OR (TUBULAR (W) SCAFFOLD))
? t s8/free
           (Item 1 from file: 35)
01984618 ORDER NO: AADAA-I3113533
Development of a fibrin - based tissue-engineered vasculature construct
for implantation
 Year:
? s s4 and (((vascular (w) smooth (w) muscle (w) cell) or VSMC or (smooth (w)
muscle adj cell)) and fibroblasts)
Processing
Processing
Processed 10 of 29 files ...
```

```
Processing
Processing
Processing
Processed 20 of 29 files ...
Processing
Completed processing all files
             28 S4
         3909101 VASCULAR
         833629 SMOOTH
         2649511 MUSCLE
        13817723 CELL
           21813 VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL
           14219 VSMC
          833629 SMOOTH
               0 MUSCLE ADJ CELL
               0 SMOOTH(W) MUSCLE ADJ CELL
          479559 FIBROBLASTS
      S 9
               O S4 AND (((VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL) OR
                  VSMC OR (SMOOTH (W) MUSCLE ADJ CELL)) AND FIBROBLASTS)
? s ((tubular (w) shape) or (cylindrical (w) mandrel) or tubular or (tubular
(w) mold) or (silastic (w) tube) or (tubular (w) scaffold)) and ((((fibrinogen
and thrombin) or fibrin) ) (w) (gel or scaffold or matrix or support))
Processing
Processed 10 of 29 files ...
Processing
Processing
Processed 20 of 29 files ...
Processing
Completed processing all files
          249282 TUBULAR
          816951 SHAPE
             855 TUBULAR (W) SHAPE
          159832 CYLINDRICAL
            2348 MANDREL
              41 CYLINDRICAL (W) MANDREL
          249282 TUBULAR
          249282 TUBULAR
          102352 MOLD
              29 TUBULAR (W) MOLD
                 SILASTIC
           22617
          600193 TUBE
            1117 SILASTIC (W) TUBE
          249282 TUBULAR
           50351 SCAFFOLD
             126 TUBULAR (W) SCAFFOLD
          169109 FIBRINOGEN
          181017
                 THROMBIN
          117005 FIBRIN
         1365813
                 GEL
           50351
                 SCAFFOLD
         1286896
                 MATRIX
         7051906
                 SUPPORT
                  ((FIBRINOGEN AND THROMBIN) OR FIBRIN) (W) ((GEL OR
            3125
                  SCAFFOLD) OR MATRIX) OR SUPPORT)
     S10
                  ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR
                  TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR
                  (TUBULAR (W) SCAFFOLD)) AND ((((FIBRINOGEN AND THROMBIN)
                  OR FIBRIN) ) (W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
? s s10 and (((tissue (w) engineered (w) vascular (w) vessel) or (tissue (w)
engineered (w) blood (w) vessel) or TEV or (tissue (w) engineered (w)
vessel)))
```

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Processing
Processing
Processed 10 of 29 files ...
Processing
Processing
Processing
Processed 20 of 29 files ...
Processing
Completed processing all files
              96 S10
         4875211 TISSUE
          144169 ENGINEERED
         3909101 VASCULAR
          650295 VESSEL
               2 TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL
         4875211 TISSUE
          144169 ENGINEERED
         9013245 BLOOD
          650295 VESSEL
             112 TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL
           14634 TEV
         4875211 TISSUE
          144169 ENGINEERED
          650295 VESSEL
              27 TISSUE (W) ENGINEERED (W) VESSEL
               2 S10 AND (((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL)
     S11
                  OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR
                   (TISSUE (W) ENGINEERED (W) VESSEL)))
? t s11/free/all
            (Item 1 from file: 35)
01984618 ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for
implantation
           2004
  Year:
            (Item 1 from file: 357)
 11/8/2
0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular
    graft, involves molding vessel-forming fibrin mixture having
    fibrinogen, thrombin and cells into fibrin gel, and incubating fibrin gel in medium for growth of cells - vascular vessel
    preparation for use in tissue engineering 2004
? ds
        Items
                Description
Set
                ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE
        14769
S1
               (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) E-
             NGINEERED (W) VESSEL))
                S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
S_2
             OR SCAFFOLD OR MATRIX OR SUPPORT))
S3
            4
                RD (unique items)
                S1 AND ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
S4
           28
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
            2 S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL -
S5
             OR SCAFFOLD OR MATRIX OR SUPPORT))
            O (FIBRIN (W) BASED) (S)((TISSUE (W) ENGINEERED (W) VASCULAR
S6
              (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
```

```
TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
S7
                (FIBRIN (W) BASED) AND((TISSUE (W) ENGINEERED (W) VASCULAR
             (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
              TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
                S7 AND ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
S8
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
                S4 AND (((VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL) OR VSMC
S9
             OR (SMOOTH (W) MUSCLE ADJ CELL)) AND FIBROBLASTS)
                ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR TUBUL-
S10
             AR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (TUBULAR (-
             W) SCAFFOLD)) AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (-
             W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
S11
                S10 AND (((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) -
             OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TI-
             SSUE (W) ENGINEERED (W) VESSEL)))
? s s2 and ((protease (w) inhibitor) or aprotinin or (aminocaproic (w) acid)
or eACA or (epsilonaminocaproic (w) acid))
Processing
Processed 20 of 29 files ...
Completed processing all files
               4 S2
          433137
                 PROTEASE
         2029415 INHIBITOR
           67833 PROTEASE (W) INHIBITOR
           26125 APROTININ
           11850 AMINOCAPROIC
        11883826 ACID
            9778 AMINOCAPROIC(W) ACID
            1632 EACA
              57 EPSILONAMINOCAPROIC
        11883826 ACID
              56 EPSILONAMINOCAPROIC(W) ACID
               3 S2 AND ((PROTEASE (W) INHIBITOR) OR APROTININ OR
     S12
                  (AMINOCAPROIC (W) ACID) OR EACA OR (EPSILONAMINOCAPROIC
                  (W) ACID))
?
? rd
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
               3 RD (unique items)
     S13
? t s13/free/all
 13/8/1
            (Item 1 from file: 5)
             BIOSIS NO.: 200510290896
0015596396
Fibrin-based tissue-engineered blood vessels: Differential effects of
  biomaterial and culture parameters on mechanical strength and vascular
  reactivity
2005
            (Item 1 from file: 35)
01984618 ORDER NO: AADAA-I3113533
Development of a fibrin-based tissue-engineered vasculature construct for
implantation
  Year:
           2004
 13/8/3
            (Item 1 from file: 357)
```

```
0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular
    graft, involves molding vessel-forming fibrin mixture having
   fibrinogen, thrombin and cells into fibrin
                                                gel , and incubating
            gel in medium for growth of cells - vascular vessel
   preparation for use in tissue engineering 2004
? s s2 and (pulse or (rhythmic (w) pulse) or (magnetic (w) pulse) or
(electrical (w) pulse))
              4 S2
         648152 PULSE
          57919 RHYTHMIC
         648152 PULSE
             40 RHYTHMIC (W) PULSE
        2200866 MAGNETIC
          648152 PULSE
            724 MAGNETIC (W) PULSE
        1184381 ELECTRICAL
          648152 PULSE
           1816 ELECTRICAL (W) PULSE
              1 S2 AND (PULSE OR (RHYTHMIC (W) PULSE) OR (MAGNETIC (W)
    $14
                 PULSE) OR (ELECTRICAL (W) PULSE))
? t s14/free
14/8/1
            (Item 1 from file: 357)
0342649 DBR Accession No.: 2004-14941
Producing tissue-engineered vascular vessels useful as in vivo vascular
    graft, involves molding vessel-forming fibrin mixture having
    fibrinogen, thrombin and cells into fibrin gel , and incubating
           gel in medium for growth of cells - vascular vessel
   fibrin
   preparation for use in tissue engineering 2004
? t s14/medium, k
14/K/1
            (Item 1 from file: 357)
DIALOG(R) File 357: Derwent Biotech Res.
(c) 2006 Thomson Derwent & ISI. All rts. reserv.
0342649 DBR Accession No.: 2004-14941
                                         PATENT
Producing tissue-engineered vascular vessels useful as in vivo vascular
    graft, involves molding vessel-forming fibrin mixture having
   fibrinogen, thrombin and cells into fibrin gel , and incubating
    fibrin gel in medium for growth of cells - vascular vessel
    preparation for use in tissue engineering
AUTHOR: SWARTZ D D; ANDREADIS S T
PATENT ASSIGNEE: UNIV NEW YORK STATE RES FOUND 2004
PATENT NUMBER: WO 200438004 PATENT DATE: 20040506 WPI ACCESSION NO.:
    2004-399958 (200437)
PRIORITY APPLIC. NO.: US 421015 APPLIC. DATE: 20021023
NATIONAL APPLIC. NO.: WO 2003US33955 APPLIC. DATE: 20031023
LANGUAGE: English
...vivo vascular graft, involves molding vessel-forming fibrin mixture
   having fibrinogen, thrombin and cells into fibrin gel, and
    incubating fibrin gel in medium for growth of cells - vascular
    vessel preparation for use in tissue engineering
ABSTRACT: DERWENT ABSTRACT: NOVELTY - Producing (M1) a tissue - engineered
     vascular vessel, involves providing a vessel-forming fibrin mixture
    comprising fibrinogen, thrombin, and cells suitable for forming a
     vascular vessel, molding the vessel-forming fibrin mixture into a
     fibrin gel having a tubular shape, and incubating the fibrin gel
     having a tubular shape in a medium suitable for growth of the cells
```

under conditions effective to produce a tissue - engineered vascular vessel . DETAILED DESCRIPTION - Producing (M1) a tissue - engineered vessel , involves: (a) providing a vessel-forming fibrin mixture (FM1) comprising fibrinogen, thrombin, and cells suitable for forming a vascular vessel, molding the vessel-forming fibrin mixture into a **fibrin** gel having a tubular shape, and incubating the fibrin gel having a tubular shape in a medium suitable for growth of the cells under conditions effective to produce a tissue engineered vascular vessel; or (b) providing FM1, where at least one of the components of FM1 is autologous to the patient, molding FM1, gel to produce a tissue - engineered incubating the fibrin vascular vessel for a particular patient, and implanting the vessel into a particular patient. An tissue - engineered vascular INDEPENDENT CLAIM is also included for a tissue - engineered vessel produced by (M1), and comprising a gelled fibrin mixture comprising fibrinogen, thrombin and cells, where...

- ... M1) further involves seeding endothelial cells on the interior surface of the vessel, subjecting the **fibrin gel** having a tubular shape to a **pulse** after the molding step, and changing the medium suitable for growth. The medium suitable for...
- ... be added to the outer surface of the vessel are fibroblasts or specific organ cells. Fibrin gel is combined with a porous scaffold to enhance vascular grafting. The porous scaffold is decellularized...
- ... the fibrinogen is autologous. The cells suitable for forming a vascular vessel are autologous. The **fibrin gel** is combined with a porous scaffold to enhance implanting.Preferred Vascular Vessel: The vessel has...
- ... an outer surface on which cells are present. USE (M1) is useful for producing a tissue engineered vascular vessel (claimed). The tissue engineered vascular vessel produced by (M1) is suitable as an in vivo vascular graft, preferably as a vein graft in a human being. ADVANTAGE (M1) enables production of tissue engineered vascular vessel that is more compatible to implantation and limits immune rejection. The vascular vessel is strong...
- ... was added. Some of the vessel constructs were connected to a pneumatic pulsation system. Thus, tissue - engineered vessel constructs were prepared.(105 pages)
  ? ds

Set Items Description

- S1 14769 ((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
- S2 4 S1 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
- S3 4 RD (unique items)
- S4 28 S1 AND ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (TUBULAR (W) SCAFFOLD))
- S5 2 S4 AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
- S6 0 (FIBRIN (W) BASED) (S)((TISSUE (W) ENGINEERED (W) VASCULAR
  (W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
  TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
- S7 3 (FIBRIN (W) BASED) AND((TISSUE (W) ENGINEERED (W) VASCULAR

```
(W) VESSEL) OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR
              TEV OR (TISSUE (W) ENGINEERED (W) VESSEL))
S8
                S7 AND ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) -
             OR TUBULAR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (T-
             UBULAR (W) SCAFFOLD))
                S4 AND (((VASCULAR (W) SMOOTH (W) MUSCLE (W) CELL) OR VSMC
S9
             OR (SMOOTH (W) MUSCLE ADJ CELL)) AND FIBROBLASTS)
                ((TUBULAR (W) SHAPE) OR (CYLINDRICAL (W) MANDREL) OR TUBUL-
S10
             AR OR (TUBULAR (W) MOLD) OR (SILASTIC (W) TUBE) OR (TUBULAR (-
             W) SCAFFOLD)) AND ((((FIBRINOGEN AND THROMBIN) OR FIBRIN) ) (-
             W) (GEL OR SCAFFOLD OR MATRIX OR SUPPORT))
                S10 AND (((TISSUE (W) ENGINEERED (W) VASCULAR (W) VESSEL) -
S11
             OR (TISSUE (W) ENGINEERED (W) BLOOD (W) VESSEL) OR TEV OR (TI-
             SSUE (W) ENGINEERED (W) VESSEL)))
                S2 AND ((PROTEASE (W) INHIBITOR) OR APROTININ OR (AMINOCAP-
S12
             ROIC (W) ACID) OR EACA OR (EPSILONAMINOCAPROIC (W) ACID))
                RD (unique items)
S13
                S2 AND (PULSE OR (RHYTHMIC (W) PULSE) OR (MAGNETIC (W) PUL-
S14
             SE) OR (ELECTRICAL (W) PULSE))
? save temp
Temp SearchSave "TF212576878" stored
? logoff
       24mar06 16:18:32 User276741 Session D116.2
           $24.96
                   4.230 DialUnits File5
               $0.00 2 Type(s) in Format 6
            $0.00 2 Types
    $24.96
           Estimated cost File5
                    1.582 DialUnits File24
            $9.81
           Estimated cost File24
     $9.81
            $5.18
                    0.835 DialUnits File28
     $5.18 Estimated cost File28
           $58.90
                    2.510 DialUnits File34
    $58.90 Estimated cost File34
                   1.529 DialUnits File35
            $6.27
               $0.00 5 Type(s) in Format 6
            $0.00 5 Types
           Estimated cost File35
     $6.27
                    0.875 DialUnits File40
            $6.26
           Estimated cost File40
     $6.26
            $7.47
                    1.205 DialUnits File41
           Estimated cost File41
     $7.47
            $6.47
                    1.407 DialUnits File50
           Estimated cost File50
     $6.47
            $3.89
                    1.037 DialUnits File65
     $3.89 Estimated cost File65
           $15.03
                    1.708 DialUnits File71
    $15.03 Estimated cost File71
           $35.07
                     3.131 DialUnits File73
    $35.07 Estimated cost File73
            $2.61
                     0.607 DialUnits File91
     $2.61 Estimated cost File91
            $5.38
                     1.539 DialUnits File94
     $5.38 Estimated cost File94
                    1.173 DialUnits File98
            $4.98
     $4.98 Estimated cost File98
                     0.953 DialUnits File110
            $5.48
            Estimated cost File110
     $5.48
                    1.385 DialUnits File135
            $7.48
               $0.00 1 Type(s) in Format 8
            $0.00 1 Types
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St 45 F

\$7.48

Estimated cost File135

\$6.42 1.035 DialUnits File136 \$6.42 Estimated cost File136 \$2.97 0.991 DialUnits File143 \$2.97 Estimated cost File143 \$9.97 2.216 DialUnits File144 \$9.97 Estimated cost File144 \$12.66 3.724 DialUnits File155 \$12.66 Estimated cost File155 \$2.85 0.813 DialUnits File164 \$2.85 Estimated cost File164 \$11.66 1.041 DialUnits File172 \$11.66 Estimated cost File172 \$4.88 0.793 DialUnits File185 \$4.88 Estimated cost File185 \$36.49 1.636 DialUnits File357 \$2.60 1 Type(s) in Format 3 \$0.00 5 Type(s) in Format 6 \$2.60 6 Types \$39.09 Estimated cost File357 \$2.52 0.719 DialUnits File369 \$2.52 Estimated cost File369 \$3.37 0.963 DialUnits File370 \$3.37 Estimated cost File370 \$0.00 1.255 DialUnits File391 \$0.00 Estimated cost File391 \$23.54 1.003 DialUnits File434 \$23.54 Estimated cost File434 \$4.69 0.733 DialUnits File467 \$4.69 Estimated cost File467 OneSearch, 29 files, 42.629 DialUnits FileOS \$7.20 TELNET \$337.06 Estimated cost this search \$337.12 Estimated total session cost 42.942 DialUnits

Logoff: level 05.10.03 D 16:18:32

You are now logged off

A. 120 T